

Multi-CD control High power CD player with FM/AM tuner

Owner's Manual

DEH-P2050

Pioneer

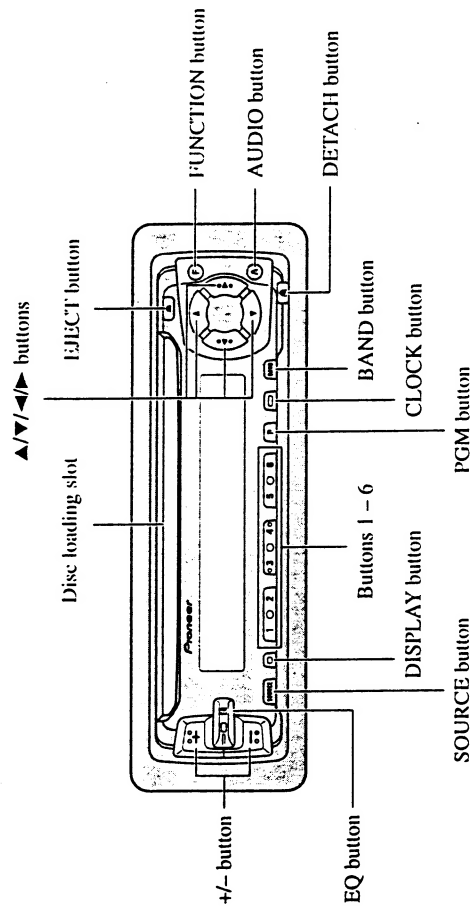
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ESPAÑOL

PORTUGUÊS (B)

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Head Unit



About This Manual

This product features a number of sophisticated functions ensuring superior reception and operation. All are designed for the easiest possible use, but many are not self-explanatory. This operation manual is intended to help you benefit fully from their potential and to maximize your listening enjoyment.

We recommend that you familiarize yourself with the functions and their operation by reading through the manual before you begin using this product. It is especially important that you read and observe the "Precaution" on the next page and in other sections.

Precaution

- CAUTION:** USE OF CONTROL OR ADJUSTMENT OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.
- CAUTION:** THE USE OF OPTICAL INSTRUMENTS WITH THIS PRODUCT WILL INCREASE EYE HAZARD.

- Keep this manual handy as a reference for operating procedures and precautions.
- Always keep the volume low enough for outside sounds to be audible.
- Protect the product from moisture.
- If the battery is disconnected, the preset memory will be erased and must be reprogrammed.
- If this product fails to operate properly, contact your dealer or your nearest authorized Pioneer Service Station.

Basic Operation

To Listen to Music

The following explains the initial operations required before you can listen to music.

Note:

- Loading a disc in this product. (Refer to page 8)

1. Select the desired source (e.g. tuner).



Each press changes the Source ...

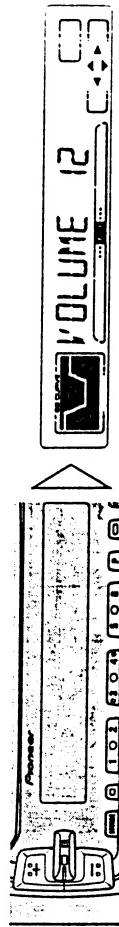
Head Unit

Each press of the SOURCE button selects the desired source in the following order:
Built-in CD player → Tuner → Multi-CD player → AUX

Note:

- In the following cases, the sound source will not change:
 - * No Multi-CD player is connected to this product.
 - * No disc is set in this product.
 - * No magazine is set in the Multi-CD player.
 - * AUX (external input) is set to OFF. (Refer to page 33.)

2. Raise or lower the volume.



3. Source OFF.



Hold for 1 second or more

Basic Operation of Tuner

Reset the AM tuning step from 9 kHz (the factory preset step) to 10 kHz when using the tuner in North, Central or South America. (Refer to page 32)

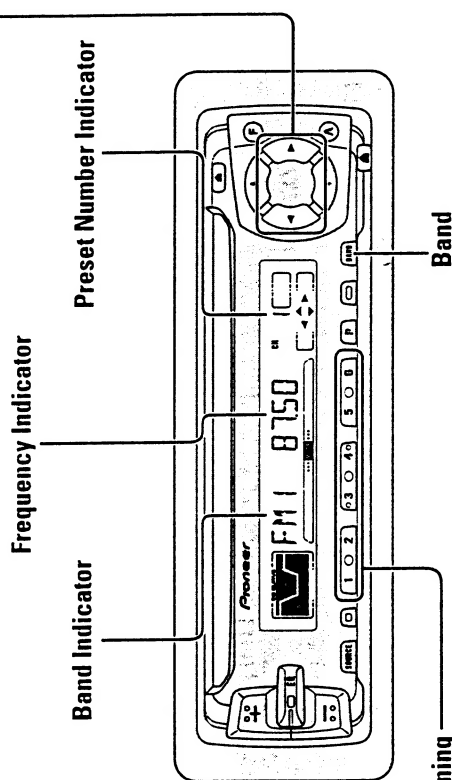
Manual and Seek Tuning

- You can select the tuning method by changing the length of time you press the **◀/▶** button.

Manual Tuning (step by step)	0.5 seconds or less
Seek Tuning	0.5 seconds or more

Note:

- If you continue pressing the button for longer than 0.5 seconds, you can skip broadcast stations. Seek Tuning starts as soon as you stop pressing the button.
- "**CD**" stereo indicator lights when a stereo station is selected.



Preset Tuning

- You can memorize broadcast stations in buttons 1 through 6 for easy, one-touch station recall.

Preset station recall	2 seconds or less
Broadcast station preset memory	2 seconds or more

Note:

- Up to 18 FM stations (6 in FM1, FM2 and FM3) and 6 AM stations can be stored in memory.
- You can also use the **▲** or **▼** buttons to recall broadcast stations memorized in buttons 1 through 6.

Basic Operation of Built-in CD Player

Switching the Display

Each press of the **DISPLAY** button changes the display in the following order:
 Playback mode (Elapsed play time)
 → Disc Title

Note:

- If you switch displays when disc titles have not been input, "NO TITLE" is displayed.

Eject

Note:

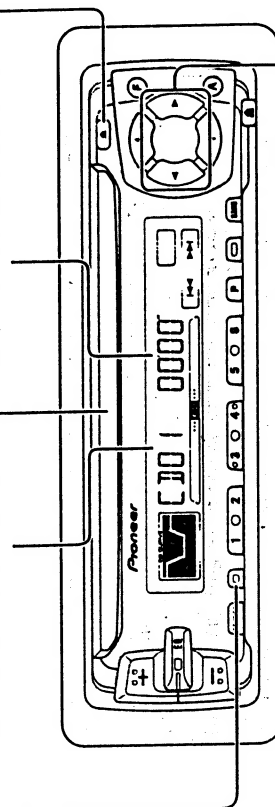
- The CD function can be turned ON/OFF with the disc remaining in this product. (See page 6.)
- Discs left partially inserted after ejection may incur damage or fall out.

Disc Loading Slot

The built-in CD player plays one standard 12 cm or 8 cm (single) CD at a time. Do not use an adapter when playing 8 cm CD.

Track Number Indicator

Elapsed Play Time Indicator



Track Search and Fast Forward/Reverse

- You can select between Track Search or Fast forward/Reverse by pressing the **◀/▶** button for a different length of time.

Track Search	0.5 seconds or less
Fast forward/Reverse	Continue pressing

Note:

- If a disc cannot be inserted fully or playback fails, make sure the recorded side is down. Push the **EJECT** button and check the disc for damage before reinserting it.
- If a CD is inserted with the recorded side up, it will be ejected automatically after a few moments.
- If the built-in CD player cannot operate properly, an error message (such as "ERROR-14") appears on the display. Refer to "Built-in CD Player's Error Message" on page 37.

Basic Operation of Multi-CD Player

This product can control one or more multi-CD players. (There are some types of multi-CD players such as "CDX-P630S" which you cannot connect more than one.)

Track Search and Fast Forward/Reverse

- You can select between Track Search or Fast forward/Reverse by pressing the ◀/▶ button for a different length of time.

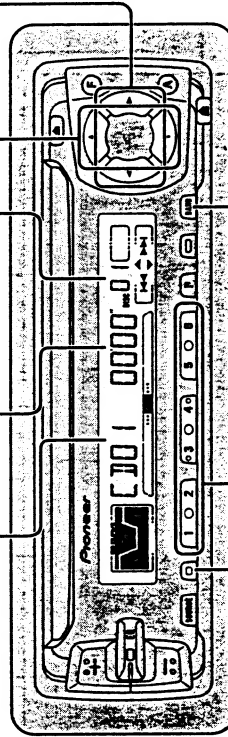
Track Search	0.5 seconds or less
Fast forward/Reverse	Continue pressing

Elapsed Play Time Indicator

Disc Number Indicator

Track Number Indicator

Disc Search



Switching the Display

Each press of the DISPLAY button changes the display in the following order:

Playback mode (Elapsed play time)

→ Disc Title

Note:

- If you switch displays when disc titles have not been input, "NO TITLE" is displayed.

Switching the Multi-CD Player

Using a multiple connection adapter lets you connect up to three Multi-CD players.

M-CD 1 → M-CD 2 → M-CD 3
(Displayed about for 2 seconds.)

Disc Number Search (for 6-Disc, 12-Disc types)

- You can select discs directly with the 1 to 6 buttons. Just press the number corresponding to the disc you want to listen to.

Note:

- When a 12-Disc Multi-CD Player is connected and you want to select disc 7 to 12, press the 1 to 6 buttons for 2 seconds or longer.

Disc Number Rough Search (for 50-Disc type only)

This handy function lets you select discs loaded in a 50-Disc Multi-CD Player using the 1 to 5 buttons. The 50 discs are divided into five blocks, with each of the 1 to 5 buttons assigned to a block.

- Select the desired block with the 1 to 5 buttons.

Note:

- After completing a rough search, use the ▲ and ▼ buttons to select a desired disc.

Note:

- The multi-CD player may perform a preparatory operation, such as verifying the presence of a disc or reading disc information, when the power is turned ON or a new disc is selected for playback. "READY" is displayed.
- When a magazine is loaded into a 50-Disc type Multi-CD Player, information on all the discs in the magazine is read.
If you start playing a disc on a 50-Disc type Multi-CD Player before reading of information on all discs has been completed, reading of information stops part way through. This will prevent you from using a number of functions. (If you try and use these functions, "NOT READY" is displayed.)
- If this happens, reading of information begins again when you switch to a component other than the 50-Disc type Multi-CD Player.
- If the multi-CD player cannot operate properly, an error message such as "ERROR-14" is displayed. Refer to the multi-CD player owner's manual.
- If there are no discs in the multi-CD player magazine, "NO DISC" is displayed.
- "LOAD" will be displayed in the following cases:
 - * If the disc in the extra tray is selected.
 - * If the disc is moved from the extra tray to the magazine.
(Refer to the 50-Disc type multi-CD player owner's manual.)
- You cannot use the "Ejecting a Single Disc", "Frequency Play", "Music Group Play" or "ABC Disc Title Search" functions with this product.

When playing a CD TEXT disc on a CD TEXT compatible Multi-CD Player such as the CDX-P650:

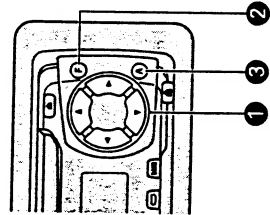
- You can use the following two functions. Refer to Multi-CD Player's Owner's Manual for operation details.
 - * Title display switching
 - * Title scroll
- You cannot switch to the Disc Title Input mode in the Detailed Setting Menu.

Corresponding Display Indications and Buttons

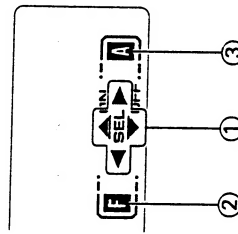
This product's display features Key Guidance Indicators. These light to indicate which of the ▲/▼/◀/▶, FUNCTION, and AUDIO buttons you can use. When you're in the Function Menu (refer to next section), Detailed Setting Menu (refer to page 14), Initial Setting Menu (refer to page 31) or Audio Menu (refer to page 27), they also make it easy to see which ▲/▼/◀/▶ buttons you can use to switch functions ON/OFF, switch repeat selections, and perform other operations.

Display indicator and corresponding buttons are shown below.

■ Head Unit



■ Display



When ① is lit in the display, perform appropriate operations with the ① buttons.

When ② is lit in the display, it indicates that you are in the Function Menu, Detailed Setting Menu, or Initial Setting Menu. You can switch between each of these menus and between different modes in the menus using button ② on the head unit.

When ③ is lit in the display, it indicates you are in the Audio Menu. You can switch between modes in the Audio Menu using button ③ on the head unit.

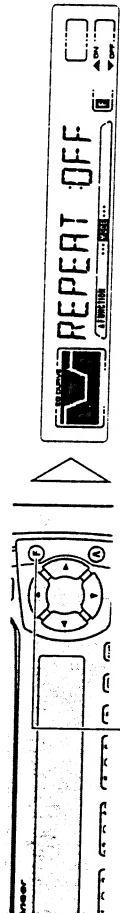
Entering the Function Menu

The Function Menu lets you operate simple functions for each source.

Note:

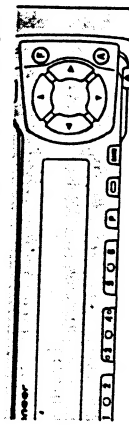
- After entering the Function Menu, if you do not perform an operation within about 30 seconds, the Function Menu is automatically canceled.

- Select the desired mode in the Function Menu. (Refer to "Function Menu Functions".)



Each press changes the Mode ...

- Operate a mode. (e.g. Repeat Play)



The button used and the operation it performs are indicated by the key guidance indicator. Press the ▲ button to switch the key guidance indicator ON, and the ▼ button to switch it OFF.

- Cancel the Function Menu.



Function Menu Functions

The following chart shows functions for each source in the Function Menu.

The chart also shows indications for each function, operations and buttons used to perform operations. For more details, or when you want to know about an operation, refer to the page number indicated in the chart.

■ Tuner

Function name (Display)	Button : Operation	Page
Best Stations Memory (BSM)	▲: ON ▼: OFF	16
Local Seek Tuning (LOCAL)	1 ▲: ON 2 ▼: OFF 2 ◀ or ▶: Select (Sensitivity)	16

Built-in CD Player

Function name (Display)	Button : Operation	Page
Repeat Play (REPEAT)	▲:ON ▼:OFF	17
Random Play (RANDOM)	▲:ON ▼:OFF	17
Scan Play (T-SCAN)	▲:ON ▼:OFF	18
Pause (PAUSE)	▲:ON ▼:OFF	18

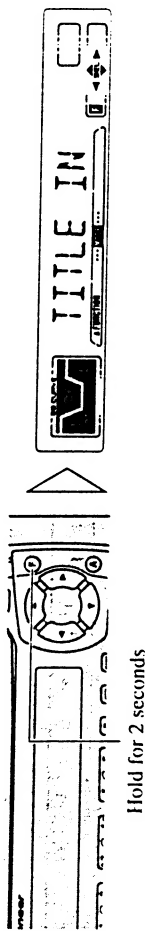
Multi-CD Player

Function name (Display)	Button: Operation	Page
Repeat Modes (REPEAT)	◀ or ▶:Select (Play range)	19
Disc Title List (TITLE LIST)	1 ◀ or ▶:Select (Disc Title) 2 ▲:Play	25
Random Play (RANDOM)	▲:ON ▼:OFF	19
Scan Play (SCAN)	▲:ON ▼:OFF	20
TTS Play (TTS-P)	▲:ON ▼:OFF	22
Pause (PAUSE)	▲:ON ▼:OFF	20
CD Sound Quality Adjustment (COMF)	▲ or ▼:Select (Sound Quality Function)	21

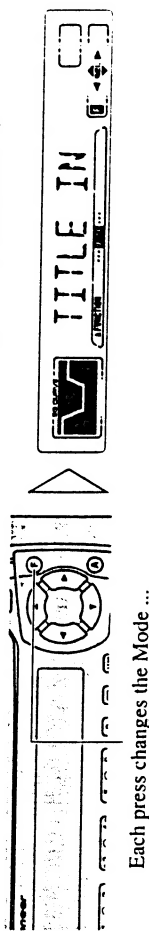
Entering the Detailed Setting Menu

In the Detailed Setting Menu, you can operate convenient, complex functions for each source.

1. Enter the Detailed Setting Menu.



2. Select the desired mode. (Refer to "Detailed Setting Menu functions".)



3. Operate a mode.

4. Cancel the Detailed Setting Menu.



Note:

- You can cancel the Detailed Setting Menu by pressing the FUNCTION button again for 2 seconds or more.

Detailed Setting Menu Functions

The following chart shows functions for each source in the Detailed Setting Menu. The chart also shows indications for each function, operations and buttons used to perform operations. For more details, or when you want to know about an operation, refer to the page number indicated in the chart.

■ Tuner

Function name (Display)	Button : Operation	Page
Programmable Function (PGM-FUNC)	1 ◀ or ▶ : Select (Function) 2 ▲ : Memory	34

■ Built-in CD Player

Function name (Display)	Button : Operation	Page
Disc Title Input (TITLE IN)	1 ▲ or ▼ : Select (Letter) 2 ◀ or ▶ : Select (Position) 3 ▶ : Memory	18
Programmable Function (PGM-FUNC)	1 ◀ or ▶ : Select (Function) 2 ▲ : Memory	34

■ Multi-CD Player

Function name (Display)	Button : Operation	Page
Disc Title Input (TITLE IN)	1 ▲ or ▼ : Select (Letter) 2 ◀ or ▶ : Select (Position) 3 ▶ : Memory	24
ITS Programming (ITS)	▲ : Memory	22
Programmable Function (PGM-FUNC)	1 ◀ or ▶ : Select (Function) 2 ▲ : Memory	34

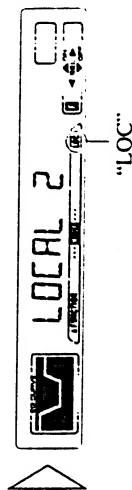
Tuner Operation

Local Seek Tuning (LOCAL)

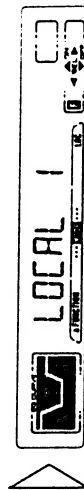
When Local mode is ON, you can only select broadcast stations providing strong reception.

1. Press the **FUNCTION** button and select the Local mode (LOCAL) in the Function Menu.

2. Switch the Local mode ON/OFF with the ▲/▼ buttons.



3. Select the desired Local Seek sensitivity with the ◀/▶ buttons.



FM : LOCAL 1 ↔ LOCAL 2 ↔ LOCAL 3 ↔ LOCAL 4
AM : LOCAL 1 ↔ LOCAL 2

Note:

- The LOCAL 4 setting allows reception of only the strongest stations, while lower settings let you receive progressively weaker stations.

Best Stations Memory (BSM)

The BSM function stores stations in memory automatically.

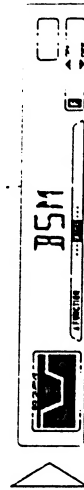
1. Press the **FUNCTION** button and select the BSM mode (BSM) in the Function Menu.

2. Switch the BSM ON with the ▲ button.



The stations with the strongest signals will be stored under buttons 1-6 and in order of their signal strength.

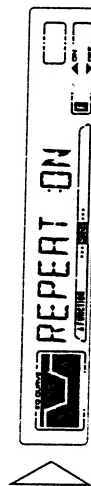
- To cancel the process, press the ▼ button in the Function Menu before memorization is complete.



Repeat Play (REPEAT)

Repeat Play plays the same track repeatedly.

1. Press the **FUNCTION** button and select the Repeat mode (**REPEAT**) in the Function Menu.



2. Switch Repeat Play ON/OFF with the **▲/▼** buttons.

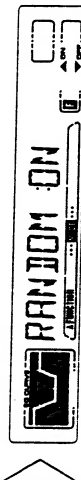
Note:

- If you perform Track Search or Fast forward/Reverse, Repeat Play is automatically canceled.

Random Play (RANDOM)

Random Play plays the tracks on a CD in random order for variety.

1. Press the **FUNCTION** button and select the Random mode (**RANDOM**) in the Function Menu.

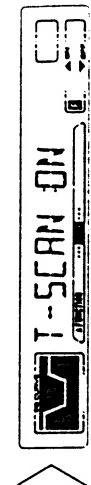


2. Switch Random Play ON/OFF with the **▲/▼** buttons.

Scan Play (T-SCAN)

Scan Play plays the first 10 seconds or so of each track on a CD in succession.

1. Press the **FUNCTION** button and select the Scan mode (**T-SCAN**) in the Function Menu.



2. Switch the Scan Play ON with the **▲** button.

3. When you find the desired track, cancel scan play with the **▼** button.

If the Function Menu is automatically canceled at this time, select the Scan mode in the Function Menu once more.

Note:

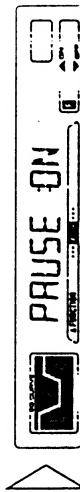
- Scan Play is canceled automatically after all the tracks on a disc have been scanned.

Pause (PAUSE)

Let's you pause play of the track currently playing.

1. Press the **FUNCTION** button and select the Pause mode (**PAUSE**) in the Function Menu.

2. Switch the Pause ON/OFF with the **▲/▼** buttons.



Note:

- One-touch operation is possible with the remote controller.

Disc Title Input (TITLE IN)

You can use "TITLE IN" to input up to 48 disc titles for CDs in the built-in CD player. (Refer to "Disc Title Input" on page 24 under "Using Multi-CD Players".)

Note:

- If you connect a Multi-CD player, you can input disc titles for up to 100 discs.

Repeat Modes (REPEAT)

There are four repeat modes (play range): One-track Repeat, Disc Repeat, Multi-CD player Repeat (the selected Multi-CD player) and All Repeat (all Multi-CD players). (Default mode is Multi-CD player Repeat.)

1. Press the **FUNCTION** button and select the Repeat Selecting mode (**REPEAT**) in the Function Menu.

2. Select the desired Repeat Mode with the **◀▶** buttons.

Multi-CD player Repeat ("MCD" is displayed) → All Repeat ("ALL" is displayed) → One-track Repeat ("TRK" is displayed) → Disc Repeat ("DSC" is displayed)

Note:

- All Repeat is available only when two or more multi-CD players are installed.
- If you go beyond the play range of the selected repeat mode by performing Track Search, Fast forward/Reverse or selecting another disc or Multi-CD player, the mode changes to an applicable Repeat mode.

Random Play (RANDOM)

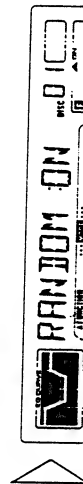
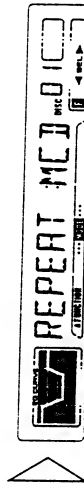
Tracks are played at random within the selected repeat mode play range as explained in "Repeat Modes" above.

1. Press the **FUNCTION** button and select the Random mode (**RANDOM**) in the Function Menu.

2. Switch the Random Play ON/OFF with the **▲/▼** buttons.

After selecting the desired repeat mode play range from those referred to in "Repeat Modes" above, switch Multi-CD Player Random Play ON.

Display	Play range
D-RDM	Disc repeat
M-RDM	Multi-CD player Repeat
RDM	All Repeat



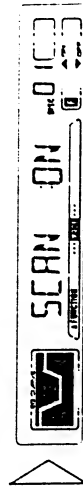
Scan Play (SCAN)

In the One-track Repeat and Disc Repeat Modes, the beginning of each track on a single disc is scanned for about 10 seconds. In the Multi-CD player Repeat and All Repeat modes, the beginning of the first track on each disc is scanned for about 10 seconds.

1. Press the **FUNCTION** button and select the Scan mode (**SCAN**) in the Function Menu.

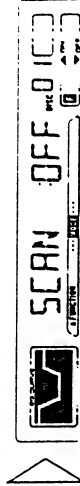
2. Switch the Scan Play ON with the **▲** button.

After selecting the desired repeat mode play range from those referred to in "Repeat Modes" on page 19, switch Multi-CD Player Scan Play ON.



3. When you find the desired track (or disc), cancel scan play with the **▼** button.

If the Function Menu is automatically canceled at this time, select the Scan mode in the Function Menu once more.



Display

Play range

T-SCN	One-Track Repeat and Disc Repeat
D-SCN	Multi-CD player Repeat
SCAN	All Repeat

Note:

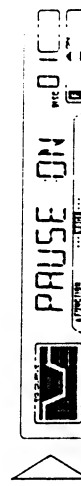
- Scan Play is canceled automatically after all the tracks or discs have been scanned.

Pause (PAUSE)

Let's you pause play of the track currently playing.

1. Press the **FUNCTION** button and select the Pause mode (**PAUSE**) in the Function Menu.

2. Switch the Pause ON/OFF with the **▲/▼** buttons.



Note:

- One-touch operation is possible with the remote controller.

CD Sound Quality Adjustment (COMP)

Using the COMP (Compression) and DBE (Dynamic Bass Emphasis) functions enables Multi-CD player sound quality adjustment. Both of the functions enable adjustment on two levels.

■ COMP

The COMP (compression) function eliminates distortions caused by imbalances between loud and subdued sounds at higher volumes.

■ DBE

DBE (dynamic bass emphasis) boosts bass levels to give a fuller sound.

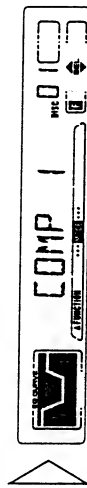
1. Press the **FUNCTION** button and select the **COMP/DBE Switching mode (COMP)** in the Function Menu.

2. Select the desired mode with the **▲/▼** buttons.

COMP OFF → COMP 1 → COMP 2
→ COMP OFF → DBE 1 → DBE 2

Note:

- You can use these functions with Multi-CD players that have them. If the player does not feature the COMP/DBE functions, "NO COMP" is displayed if you try to use them.



ITS (Instant Track Selection)

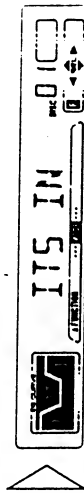
The ITS function allows you to search for the track you wish to play when one or more multi-CD players are installed. You can use ITS to program automatic playback of up to 24 tracks per disc from up to 100 discs. (You can store ITS program and Disc Title data for up to 100 discs in memory.)

ITS Programming (ITS)

ITS programming can be conducted in any multi-CD player playback mode except ITS play.

1. Play the track you wish to program.
2. Select the ITS Programming mode (ITS) in the Detailed Setting Menu.

3. Program the desired track with the **▲** button.



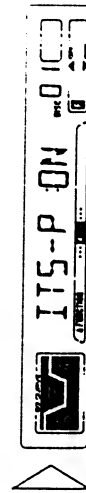
Note:

- After 100 discs have been programmed, data for a new disc will overwrite the data for the disc that has not been played back for the longest time.

ITS Play (ITS-P)

ITS play of tracks is performed within the play range explained in the "Repeat Modes" section.

1. Press the **FUNCTION** button and select the ITS Play Mode (ITS-P) in the Function Menu.
2. Switch ITS Play ON/OFF with the **▲/▼** buttons.
After selecting the desired repeat mode play range from those referred to in "Repeat Modes" on page 19, switch ITS play ON.



Note:

- If no track in the current range is programmed for ITS play "ITS EMPTY" is displayed.

Erase a track program

1. Select the track you wish to erase, during ITS play.
2. Select the ITS Programming mode (ITS) in the Detailed Setting Menu. (Refer to page 14.)

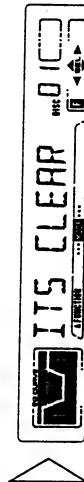
3. Erase with the ▼ button.

ITS is canceled and playback of the next ITS-programmed track begins. If there are no more programmed tracks in the current range, "ITS EMPTY" is displayed and normal play resumes.

**Erase a disc program**

1. Select the disc you wish to erase, while the disc is playing.
2. Select the ITS Programming mode (ITS) in the Detailed Setting Menu. (Refer to page 14.)

3. Erase with the ▼ button.

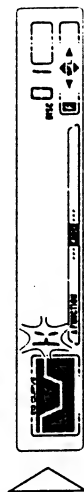
**Disc Title****Disc Title Input (TITLE IN)**

You can input Titles up to 10 letters long for up to 100 discs. Using this function lets you easily search for and select a desired disc for play. (You can store ITS program and Disc Title data for up to 100 discs in memory.)

1. Play the disc you wish to input the disc title.
2. Select the Disc Title Input mode (TITLE IN) in the Detailed Setting Menu. (Refer to page 14.)

3. Select letters, numbers and symbols with the ▲/▼ buttons.

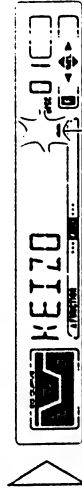
To insert a space, select the flashing cursor " _ ".



4. Move the box left and right with the ◀/▶ buttons.



5. When you have completed title input, make the 10th letter flash, and then memorize by pressing the ► button.

**Note:**

- Titles remain in memory, even after the disc has been removed from the magazine, and are recalled when the disc is reinserted.
- Alter the titles for 100 discs have been entered, data for a new disc will overwrite the data for the disc that has not been played back for the longest time.
- You can display the disc title of the disc currently playing. For details, refer to "Switching the Display" on page 9.

Disc Title List (TITLE LIST)

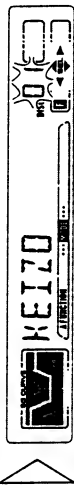
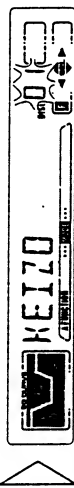
Follow the procedures below to play a disc for which you have input the title in a multi-CD player:

1. Press the **FUNCTION** button and select the Disc Title List mode (TITLE LIST) in the Function Menu.

2. Each time you press the **◀/▶** buttons, titles in the current disc magazine are displayed in the order of their disc numbers.

Nothing is displayed for disc whose titles have not been input.

3. Select the desired disc for playback by pressing **▲** button when its title is displayed.

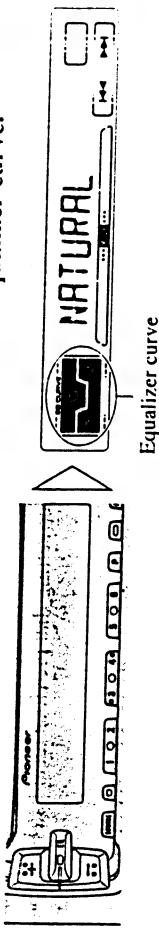


Audio Adjustment

Selecting the Equalizer Curve

You can switch between Equalizer curves.

- Move the **EQ** button up or down to select the desired Equalizer curve.



POWERFUL ↔ NATURAL ↔ VOCAL ↔ CUSTOM ↔ EQ FLAT
↔ SUPER BASS

Note:

- "CUSTOM" stores an equalizer curve you have made adjustments to. (Refer to "Equalizer Curve Adjustment" on page 27.)
- You can create different "CUSTOM" curves for different sources. (The built-in CD player and multi-CD player are set to the same Equalizer Curve Adjustment setting automatically.)

Entering the Audio Menu

With this Menu, you can adjust the sound quality.

Note:

- After entering the Audio Menu, if you do not perform an operation within about 30 seconds, the Audio Menu is automatically canceled.

1. Select the desired mode in the Audio Menu.



Each press changes the Mode ...

2. Operate a mode.

3. Cancel the Audio Menu.



Audio Menu Functions

The Audio Menu features the following functions.

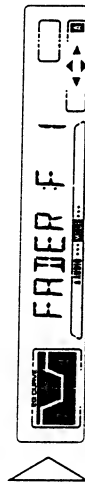
Balance Adjustment (FADER)

This function allows you to select a Fader/Balance setting that provides ideal listening conditions in all occupied seats.

1. Press the **AUDIO** button and select **Fader/Balance mode (FADER)** in the Audio Menu.

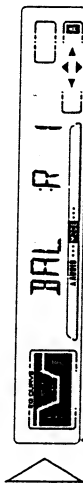
2. Adjust front/rear speaker balance with the $\blacktriangle/\blacktriangledown$ buttons.

"FADER F15" – "FADER R15" is displayed as it moves from front to rear.



3. Adjust left/right speaker balance with the $\blacktriangle/\blacktriangledown$ buttons.

"BAL L 9" – "BAL R 9" is displayed as it moves from left to right.



Note:

- "FADER 0" is the proper setting when 2 speakers are in use.

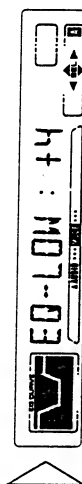
Equalizer Curve Adjustment (EQ-LOW/MID/HIGH)

You can adjust equalizer curve settings as desired. Adjusted equalizer curve settings are memorized in "CUSTOM".

1. Press the **AUDIO** button and select the **Equalizer mode (EQ-LOW/MID/HIGH)** in the Audio Menu.

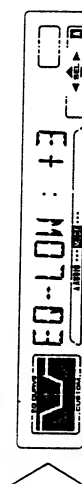
2. Select the band you want to adjust with the $\blacktriangle/\blacktriangledown$ buttons.

EQ-LOW \leftrightarrow EQ-MID \leftrightarrow EQ-HIGH



3. Boost or attenuate the selected band with the $\blacktriangle/\blacktriangledown$ buttons.

The display shows "+6" – "-6".

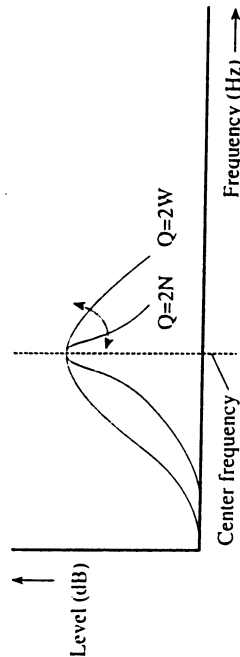


Note:

- If you make adjustments when a curve other than "CUSTOM" is selected, the adjusted curve is stored in memory as a "CUSTOM" curve. Also, the displayed curve switches to that selected before adjustments were made.

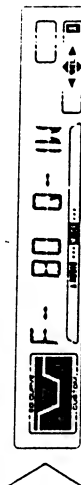
Equalizer Curve Fine Adjustment

You can adjust the center frequency of each equalizer curve band (LOW/MID/HIGH) and the Q factor (curve characteristics).



1. Press the **AUDIO** button for 2 or more seconds to select **Equalizer Curve Fine Adjustment**.

2. Press the **AUDIO** button to select the desired band for adjustment.



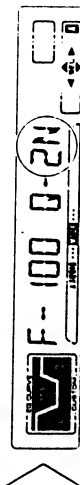
3. Select the desired frequency with the $\blacktriangle/\blacktriangledown$ buttons.

LOW: 40 \leftrightarrow 80 \leftrightarrow 100 \leftrightarrow 160 (Hz)
MID: 200 \leftrightarrow 500 \leftrightarrow 1K \leftrightarrow 2K (Hz)
HIGH: 3K \leftrightarrow 8K \leftrightarrow 10K \leftrightarrow 12K (Hz)



4. Select the desired Q factor with the $\blacktriangle/\blacktriangledown$ buttons.

2N \leftrightarrow 1N \leftrightarrow 1W \leftrightarrow 2W

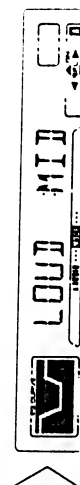


Loudness Adjustment (LOUD)

The Loudness function compensates for deficiencies in the low and high sound ranges at low volume. You can select a desired Loudness level.

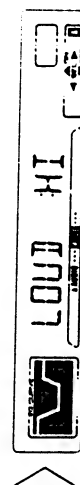
1. Press the **AUDIO** button and select the **Loudness mode (LOUD)** in the Audio Menu.

2. Switch the Loudness function ON/OFF with the $\blacktriangle/\blacktriangledown$ buttons.



3. Select the desired level with the $\blacktriangle/\blacktriangledown$ buttons.

LOW \leftrightarrow MID \leftrightarrow HI



Front Image Enhancer Function (FIE)

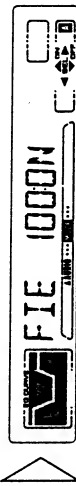
The F.I.E. (Front Image Enhancer) function is a simple method of enhancing front imaging by cutting mid- and high-range frequency output from the rear speakers, limiting their output to low-range frequencies. You can select the frequency you want to cut.

Precaution:

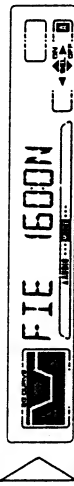
- When the F.I.E. function is deactivated, the rear speakers output sound of all frequencies, not just bass sounds. Reduce the volume before disengaging F.I.E. to prevent a sudden increase in volume.

1. Press the AUDIO button and select the F.I.E. mode (FIE) in the Audio Menu.

2. Switch the F.I.E. function ON/OFF with the ▲/▼ buttons.



3. Select the desired frequency with the ◀/▶ buttons.
100 ↔ 160 ↔ 250 (Hz)



Note:

- After switching the F.I.E. function ON, select the Fader/Balance mode in the Audio Menu, and adjust front and rear speaker volume levels until they are balanced.
- Switch the F.I.E. function OFF when using a 2-speaker system.

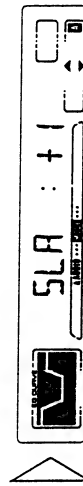
Source Level Adjustment (SLA)

The SLA (Source Level Adjustment) function prevents radical leaps in volume when switching between sources. Settings are based on the FM volume, which remains unchanged. (Since the FM volume is the control, SLA is not possible in the FM modes.) The AM, CD, MD and AUX levels can all be adjusted. The built-in CD player and multi-CD player are set to the same volume adjustment setting automatically.

1. Compare the FM volume with the volume of the other source.
(e.g. Built-in CD player)

2. Press the AUDIO button, and select the SLA mode (SLA) in the Audio Menu.

3. Increase or decrease the level with the ▲/▼ buttons.
The display shows "+4" - "-4".



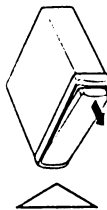
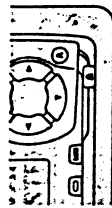
Detaching and Replacing the Front Panel

Theft-Protection

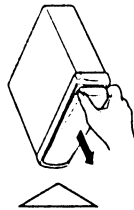
The front panel of the head unit is detachable to discourage theft.

Detaching the Front Panel

1. Eject the front panel.

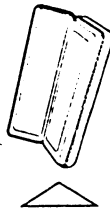


2. To remove the front panel, pull its right-hand side toward you.



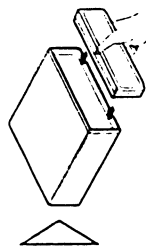
Take care not to grip it tightly or drop it.

3. Use the protective case provided to store/carry the detached front panel.



Replacing the Front Panel

- Replace the front panel by clipping it into place.



Precaution:

- Never use force or grip the display tightly when removing or replacing the front panel.
- Avoid subjecting the front panel to excessive shocks.
- Keep the front panel out of direct sunlight and high temperatures.

Warning Tone

If the front panel is not detached within 5 seconds after the ignition is turned off, a warning tone will sound.

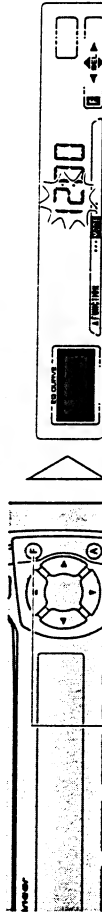
Note:

- You can cancel the warning tone function. (Refer to page 33)

Entering the Initial Setting Menu

With this Menu, you can perform initial settings for the product.

1. Switch the sources OFF.
2. Enter the Initial Setting Menu with the sources OFF.



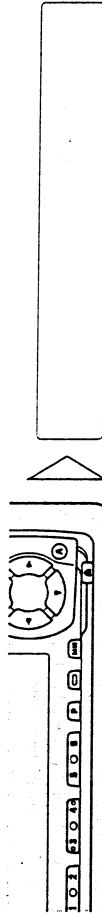
Hold for 2 seconds

3. Select the desired mode.



Each press changes the Mode ...

4. Operate a mode.
5. Cancel the Initial Setting Menu.



Note:

- Holding down the FUNCTION button for 2 seconds also cancels the Initial Setting Menu.

Initial Setting Menu functions

The Initial Setting Menu features the following functions.

Setting the Time

This is the mode for setting the time on the unit's clock display. (Refer to page 34 for details concerning the clock display.)

1. Select the time setting mode in the Initial Setting Menu.
2. Select "Hour" or "Minute" with the \leftarrow/\rightarrow buttons.



3. Set as desired time with the \uparrow/\downarrow buttons.

As soon as you switch to "Minute", the seconds start counting from (0).

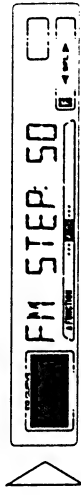


Changing the FM Tuning Step (FM STEP)

The tuning step employed by Seek Tuning in the FM mode can be switched between 100 kHz (preset at the factory) and 50 kHz.

1. Press the FUNCTION button and select the FM Tuning Step mode (FM STEP) in the Initial Setting Menu.

2. Switch the desired tuning step with the \leftarrow/\rightarrow buttons.



Note:

- If Seek Tuning is performed in 50 kHz steps, stations may be tuned in imprecisely. Tune in the stations with Manual Tuning or use Seek Tuning again.

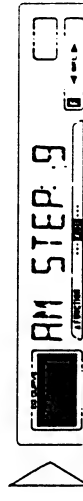
Changing the AM Tuning Step (AM STEP)

The tuning step employed in the tuner's AM band can be switched between 9 kHz and 10 kHz per step. Reset the tuning step from 9 kHz (the factory preset step) to 10 kHz when using the tuner in North, Central or South America.

Specifications	Initial Setting	New Setting
Tuning Steps	9 kHz	10 kHz
Frequency range	531 - 1,602 kHz	530 - 1,710 kHz

1. Press the FUNCTION button and select the AM Tuning Step mode (AM STEP) in the Initial Setting Menu.

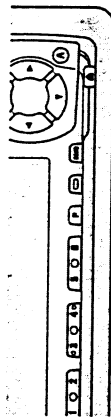
2. Select the desired step with the \leftarrow/\rightarrow buttons.



Using the PGM Button

The PGM button operates in a different way depending on the function programmed (memorized).

- Use the PGM button.



■ Tuner

Function Name (Display)	Press	Hold for 2 seconds
Best Stations Memory (BSM)	OFF	ON
Local Seek Tuning (LOCAL)	ON/OFF?	Entering the Local Seek Sensitivity mode

■ Built-in CD Player

Function Name (Display)	Press	Hold for 2 seconds
Pause (PAUSE)	ON/OFF?	—
Repeat Play (REPEAT)	ON/OFF?	—
Random Play (RANDOM)	ON/OFF?	—

■ Multi-CD Player

Function Name (Display)	Press	Hold for 2 seconds
Pause (PAUSE)	ON/OFF?	—
Repeat Modes (REPEAT)	Selecting the mode	—
Random Play (RANDOM)	ON/OFF?	—
Disc Title List (TITLE LIST)	Enter the LIST mode	—
ITS	ITS Programming	ON/OFF

Using the AUX Source

It is possible to use auxiliary (AUX) equipment with this product.

To listen to auxiliary equipment, switch the AUX Mode in the Initial Setting Menu ON, and then select the desired source.

Selecting the AUX Source

- Select AUX. (Refer to page 6.)

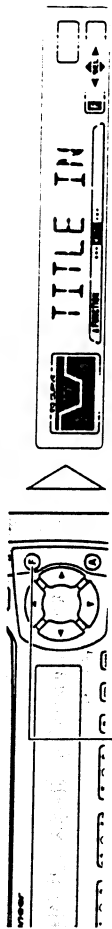


Each press changes the Source ...

AUX Title Input

The display title for AUX Source can be changed.

1. Select the Aux Title Input mode in Detailed Setting Menu.



Hold for 2 seconds

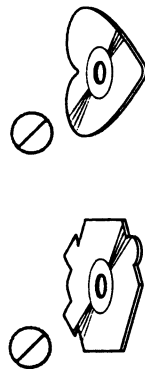
2. Input the Aux Title.

Refer to "Disc Title Input" on page 24, and perform procedures 3 to 5 in the same way.

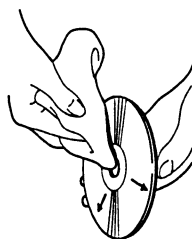
Precaution



- Play only CDs bearing the Compact Disc Digital Audio mark.



- This product is designed for use with conventional, fully circular CDs only. Use of shaped CDs are not recommended for this product.
- Check all CDs before playing and discard cracked, scratched or warped discs.
- Wipe dirty or damp discs outward from the center with a soft cloth.



- Avoid touching the recorded (iridescent) surface when handling discs.
- Store discs in their cases when not in use.
- Keep discs out of direct sunlight and high temperatures.
- Do not affix labels or apply chemicals to discs.
- Condensation may collect inside the player when using the heater in cold weather, interfering with playback. Turn it off for an hour or so and wipe damp discs with a soft cloth.
- Road shocks may interrupt CD playback.

Built-in CD Player's Error Message

When problems occur with CD playback, an error message appears on the display. Refer to the table below to identify the problem, then take the suggested corrective action. If the error persists, contact your dealer or your nearest PIONEER Service Center.

Message	Possible cause	Recommended action
ERROR- 11, 12, 17, 30	Dirty disc.	Clean the disc.
ERROR- 11, 12, 17, 30	Scratched disc.	Replace the disc.
ERROR- 14	Unrecorded CD.	Check the disc.
ERROR- 10, 11, 12, 14, 17, 30, A0	Electrical or mechanical problem.	Turn the ignition ON and OFF, or switch to a different source, then back to the CD player.
HEAT	CD player overheating.	Discontinue play until the machine temperature drops.

General

Power source 14.4 V DC (10.8 – 15.1 V allowable)
 Grounding system Negative type
 Max. current consumption 10.0 A
 Dimensions
 (J/N) (chassis) 178 (W) × 50 (H) × 159 (D) mm
 (nose) 188 (W) × 58 (H) × 19 (D) mm
 (D) (chassis) 178 (W) × 50 (H) × 164 (D) mm
 (nose) 170 (W) × 46 (H) × 14 (D) mm
 Weight 1.4 kg

Amplifier

Continuous power output is 22 W per channel min. into 4 ohms, both channels driven 50 to 15,000 Hz with no more than 5% THD.
 Maximum power output 45 W × 4
 Load impedance 4 Ω (4 – 8 Ω allowable)
 Preout maximum output level/
 output impedance 2.2 V/1 kΩ
 Equalizer (3-Band Parametric Equalizer)
 (Low) Frequency: 40/80/100/160 Hz
 Q Factor: 0.35/0.59/0.95/1.15
 (+6 dB when boosted)
 Level: ±12 dB
 (Mid) Frequency: 200/500/1k/2k Hz
 Q Factor: 0.35/0.59/0.95/1.15
 (+6 dB when boosted)
 Level: ±12 dB
 (High) Frequency: 3.15k/8k/10k/12.5k Hz
 Q Factor: 0.35/0.59/0.95/1.15
 (+6 dB when boosted)
 Level: ±12 dB

Loudness contour

(Low) +3.5 dB (100 Hz), +3 dB (10 kHz)
 (Mid) +10 dB (100 Hz), +6.5 dB (10 kHz)
 (High) +11 dB (100 Hz), +11 dB (10 kHz)
 (volume: –30 dB)

CD player

System Compact disc audio system
 Usable discs Compact disc
 Signal format Sampling frequency: 44.1 kHz
 Number of quantization bits: 16; linear
 Frequency characteristics 5 – 20,000 Hz (±1 dB)
 Signal-to-noise ratio 94 dB (1 kHz) (IEC-A network)
 Dynamic range 92 dB (1 kHz)
 Number of channels 2 (stereo)

FM tuner

Frequency range 87.5 – 108 MHz
 Usable sensitivity 10 dBf (1.0 μV/75 Ω, mono, S/N: 30 dB)
 50 dB quieting sensitivity 15 dBf (1.7 μV/75 Ω, mono)
 Signal-to-noise ratio 70 dB (IEC-A network)
 Distortion 0.3% (at 65 dBf, 1 kHz, stereo)
 Frequency response 30 – 15,000 Hz (±3 dB)
 Stereo separation 40 dB (at 65 dBf, 1 kHz)

AM tuner

Frequency range 531 – 1,602 kHz (9 kHz)
 530 – 1,710 kHz (10 kHz)
 Usable sensitivity 18 μV (S/N: 20 dB)
 Selectivity 50 dB (±9 kHz)
 50 dB (±10 kHz)

Note:

- Specifications and the design are subject to possible modification without notice due to improvements.

Connecting the Units	2
Installation	5
DIN Front/Rear-mount	5
DIN Front-mount	5
• Installation with the rubber bush	
• Removing the Unit	
DIN Rear-mount	7
• Installation using the screw holes on the side of the unit	

Connecting the Units

Note:

- This unit is for vehicles with a 12-volt battery and negative grounding. Before installing it in a recreational vehicle, truck, or bus, check the battery voltage.
 - To avoid shorts in the electrical system, be sure to disconnect the \ominus battery cable before beginning installation.
 - Refer to the owner's manual for details on connecting the power amp and other units, then make connections correctly.
 - Secure the wiring with cable clamps or adhesive tape. To protect the wiring, wrap adhesive tape around them where they lie against metal parts.
 - Route and secure all wiring so it cannot touch any moving parts, such as the gear shift, handbrake and seat rails. Do not route wiring in places that get hot, such as near the heater outlet. If the insulation of the wiring melts or gets torn, there is a danger of the wiring short-circuiting to the vehicle body.
 - Don't pass the yellow lead through a hole into the engine compartment to connect to the battery. This will damage the lead insulation and cause a very dangerous short.
 - Do not shorten any leads. If you do, the protection circuit may fail to work when it should.
 - Never feed power to other equipment by cutting the insulation of the power supply lead of the unit and tapping into the lead. The current capacity of the lead will be exceeded, causing overheating.
 - When replacing fuse, be sure to use only fuse of the rating prescribed on this unit.
 - Since a unique BPTL circuit is employed, never wire so the speaker leads are directly grounded or the left and right \ominus speaker leads are common.
 - The black lead is ground. Please ground this lead separately from the ground of high-current products such as power amps.
- If you ground the products together and the ground becomes detached, there is a risk of damage to the products or fire.

- Speakers connected to this unit must be high-power types possessing minimum rating of 45 W and impedance of 4 to 8 ohms. Connecting speakers with output and/or impedance values other than those noted here can damage the speakers.
- When an external power amp is being used with this system, be sure not to connect the blue/white lead to the amp's power terminal. Likewise, do not connect the blue/white lead to the power terminal of the auto-antenna. Such connection could cause excessive current drain and malfunction.
- To prevent incorrect connection, the input side of the IP-BUS connector is blue, and the output side is black. Connect the connectors of the same colors correctly.
- If this unit is installed in a vehicle that does not have an ACC (accessory) position on the ignition switch, the red lead of the unit should be connected to a terminal coupled with ignition switch ON/OFF operations. If this is not done, the vehicle battery may be drained when you are away from the vehicle for several hours. (Fig. 1)

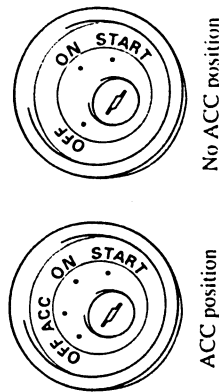


Fig. 1

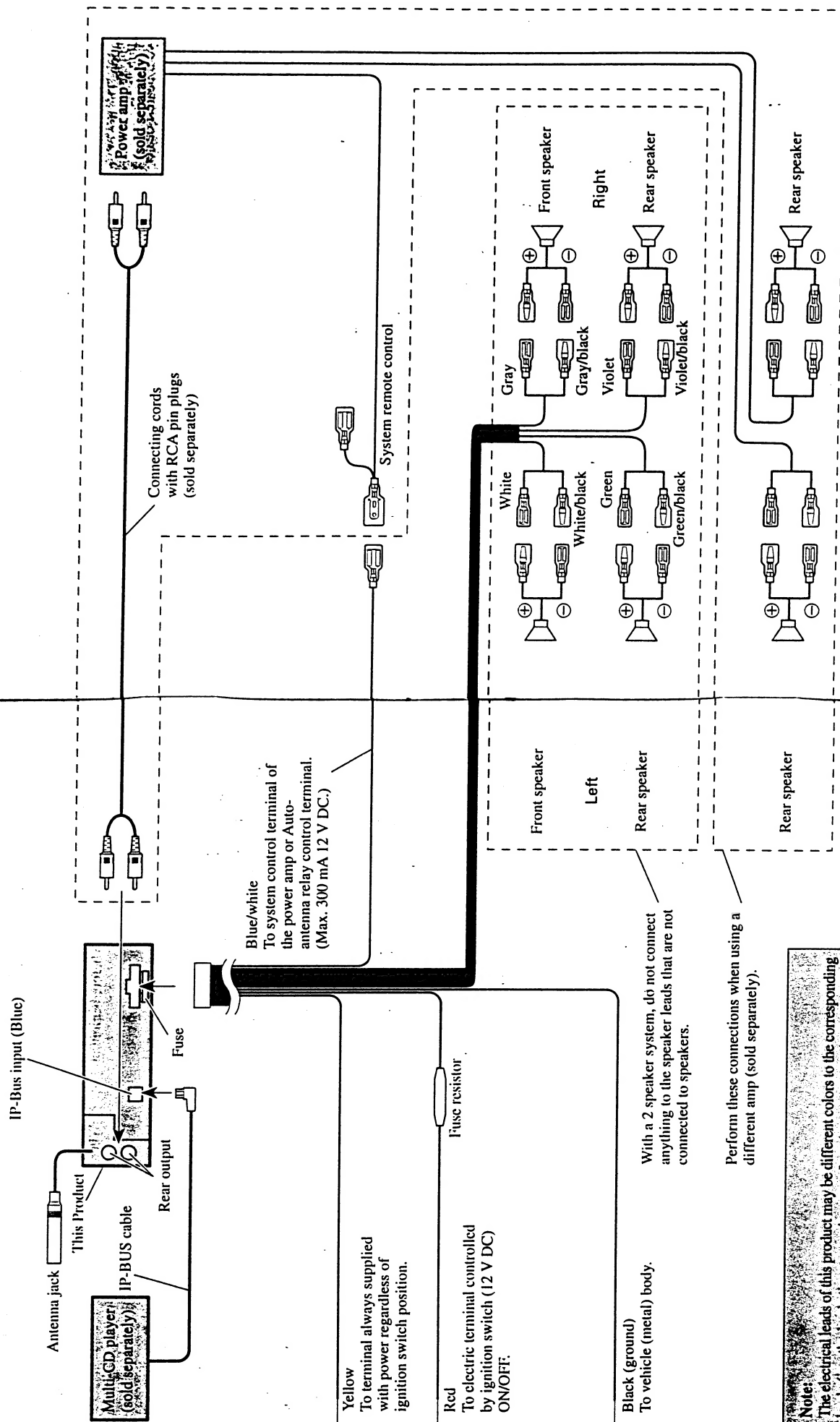


Fig. 2

Note:

- Before finally installing the unit, connect the wiring temporarily, making sure it is all connected up properly, and the unit and the system work properly.
- Use only the parts included with the unit to ensure proper installation. The use of unauthorized parts can cause malfunctions.
- Consult with your nearest dealer if installation requires the drilling of holes or other modifications of the vehicle.
- Install the unit where it does not get in the driver's way and cannot injure the passenger if there is a sudden stop, like an emergency stop.
- The semiconductor laser will be damaged if it overheats, so don't install the unit anywhere hot — for instance, near a heater outlet.

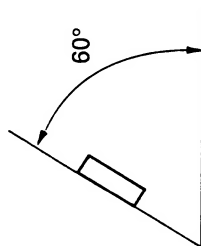


Fig. 3

DIN Front/Rear-mount

This unit can be properly installed either from "Front" (conventional DIN Front-mount) or "Rear" (DIN Rear-mount installation, utilizing threaded screw holes at the sides of unit chassis). For details, refer to the following illustrated installation methods.

DIN Front-mount

Installation with the rubber bush (Fig. 4)

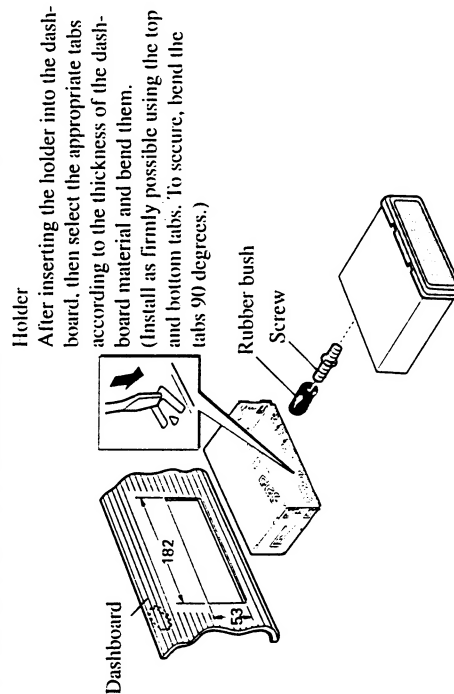


Fig. 4

Removing the Unit (Fig. 5) (Fig. 6)

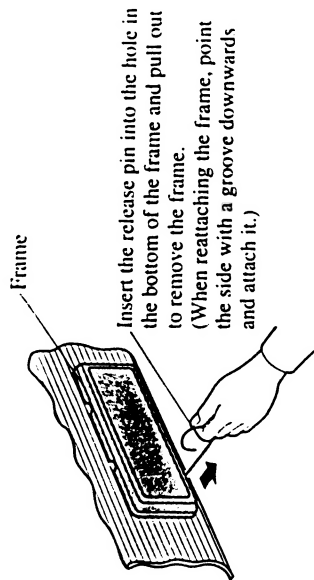


Fig. 5

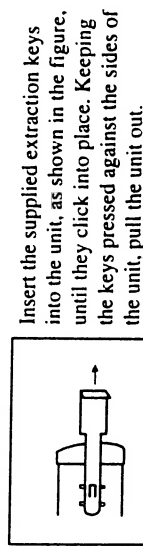


Fig. 6

Setting the Warning Tone (WARN)

You can switch the Warning Tone function ON/OFF. (Refer to "Warning Tone" on page 30.)

1. Press the FUNCTION button and select the Warning tone mode (WARN) in the Initial Setting Menu.
2. Switch the Warning tone ON/OFF with the ▲/▼ buttons.

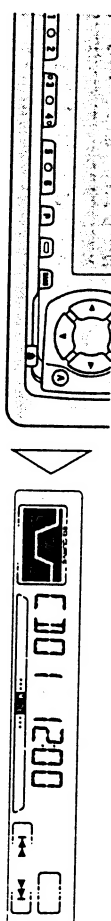
**Switching the AUX Mode (AUX)**

It is possible to use auxiliary (AUX) equipment with this product. Activate the AUX mode when using external equipment with this product.

1. Press the FUNCTION button and select the AUX Setting (AUX) mode in the Initial Setting Menu.
2. Switch the AUX ON/OFF with the ▲/▼ buttons.

**Time Display****Displaying the Time**

- To turn the time display ON with the source ON.



The time display disappears temporarily when you perform another operation, but the time indication returns to the display after 25 seconds.

Using the PGM Button (PGM-FUNC)

The PGM(Programmable) button can memorize one of the functions in the Function Menu.

It is possible to memorize a different function for each source.

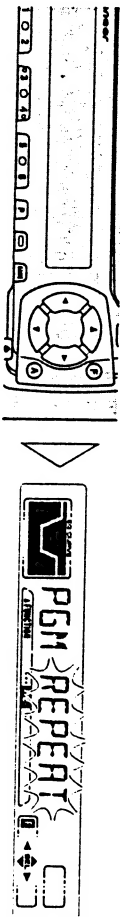
Setting the PGM Button

1. Select the PGM button's setting mode (PGM-FUNC) in the Detailed Setting Menu. (Refer to page 14.)

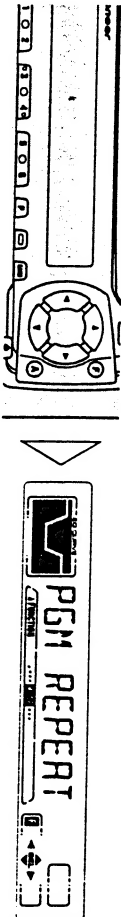


Hold for 2 seconds

2. Select the function you want to memorize in the PGM button.



3. Memorize the function in PGM button.

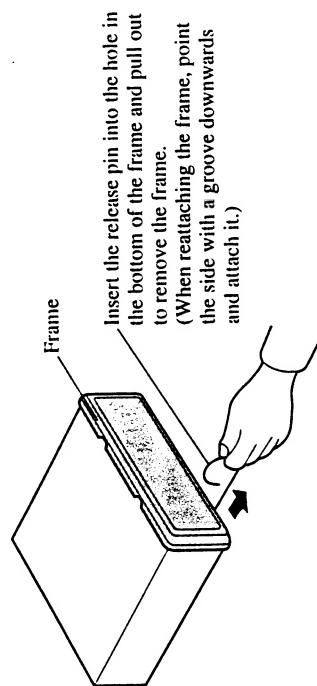


To cancel the PGM button setting mode, press the BAND button.

DIN Rear-mount

Installation using the screw holes on the side of the unit

1. Remove the frame. (Fig. 7)



Insert the release pin into the hole in the bottom of the frame and pull out to remove the frame.
(When reattaching the frame, point the side with a groove downwards and attach it.)

Fig. 7

2. Fastening the unit to the factory radio mounting bracket. (Fig. 8) (Fig. 9)

Select a position where the screw holes of the bracket and the screw holes of the head unit become aligned (are fitted), and tighten the screws at 2 places on each side. Use either truss screws (5 x 8 mm) or flush surface screws (5 x 9 mm), depending on the shape of the screw holes in the bracket.

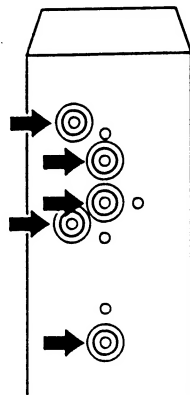


Fig. 8

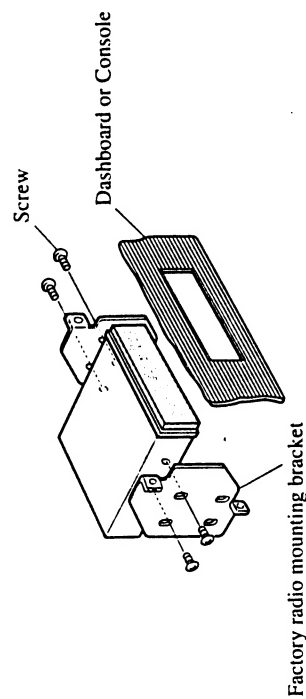


Fig. 9